Climate Change Fuel Cell Program 1 Year Evaluation Form

General Information

Contract NumberApplicant NameFuel Cell TypeManufacturer DE-DE-FG21-96MC33349Hamilton SundstrandPC25A (Phosphoric acid)Itl' Fuel Cells - UTC

Amount of the Award Building Application Thermal Application kWSize

200k PRIMARY - NON GRID CONNECTED NONE 200kw

Thermal Utilization Grid Independent? Number of Units

NONE NO 1

Energy Savings

Electrical Savings Thermal Savings Natural Gas Cost (if applicable)

NONE NONE \$8100/MTH AVG – 10,300 CCF/MTH AVG.

Savings - Natural Gas

NONE

Contract Point of Contact Information

Contract POC Name Address City State/Country Zip

James G. Hogan One Hamilton Road Windsor Locks Ct. 06096

Phone Number Email

360-654-5635 james.hogan@hs.utc.com

Site Information

Site Name/Owner Address City State/Country Zip

Same

Site POC/Manager Site POC Phone Number Site POC Email

Performance Information

Estimated Install/Acceptance Test Date Operating Hours

12/19/1997 27.876 LOADED AS OF 7/19/01

MWHRS Average kW

140 AVG

Electrical Efficiency Availability Length of Assessment

UNKNOWN 88% (12 MTH AVG.)

Mean Time Between Forced Outages

ONLY ONE FORCED OUTAGE MAY OF 2000 FAILURE OF A PRESSURE TRANSMITTER

Please Send the Following Items to Kimberly. Kuster-Smith@erdc.usace.army.mil

Site Description(5-15 sentences)

This plant serves as the primary power source for the Hamilton Sundstrand Data Center and Data Center UPS's. It is considerred an ultra high reliable power source in that if an outage occurs it is backed up by the grid via trnasfer switch AND if the grid is unavailable, the load is transferred to a 500 kw generator.

Other Text you may need...

In March of 1997, funding was appropriated for one grid independent Phosphoric Acid Fuel Cell for serving the Hamilton Standard Data and Computing Center. The need for a reliable and clean power source was critical in that this center supports world wide operations. The manufacturer of this cell, ONSI Corporation – A Division of Hamilton Standard, assisted in the design and installation. The physical installation was completed in December of 1997, and the cell was put on-line in January of 1998.

This installation was endorsed, in part, as a means to provide a showplace demonstration of Hamilton Standards fuel cell technology and to provide a lessons learned opportunity for future improvements and system enhancements.

Pictures
Fuel Cell Dedication Date